Asbestos NESHAP & Lead Survey

Performed at:

Lake City VA Medical Center 619 South Marion Avenue Lake City, FL 32025

Report Prepared For:



MES Group 550 North Reo Street, Suite 203 Tampa, Florida 33609

Report Prepared By:

OHC ENGINEERING

OHC Environmental Engineering, Inc. 5420 Bay Center Drive, Suite 100 Tampa, Florida 33609

OHC Project #160028-AL

March 29, 2016

March 29, 2016

Charles Flask Senior Engineer MES Group 550 North Reo Street, Suite 203 Tampa, FL 33609

Re: Asbestos NESHAP & Lead Survey Lake City VA Medical Center Mechanical & Plumbing Improvements Project Buildings 19, 38 & 64 OHC Project No. 160028-AL

Dear Mr. Flask,

OHC Environmental Engineering, Inc. (OHC) is pleased to present the report for the Asbestos NESHAP & Lead Survey performed on March 8 & 9 of 2016. These services were conducted within Buildings 19, 38 and 64 for the future Mechanical & Plumbing Improvements at the Lake City VA Medical Center located at 619 South Marion Avenue in Lake City, Florida.

If we can be of further assistance or if you should have any questions, please do not hesitate to contact us at your convenience.

Sincerely,

Report Prepared by:

Cristina Jones Industrial Hygienist Report Reviewed by:

James F. Rizk, CIH

President



ASBESTOS NESHAP & LEAD SURVEY

OHC PROJECT NO. 160028-AL

PROJECT NAME: Lake City VA Mechanical & Plumbing

Improvements

CLIENT NAME: MES Group

PROJECT LOCATION: Lake City VA Medical Center

Buildings 19, 38 & 64

ADDRESS: 619 South Marion Avenue

Lake City, FL 32025

DATE(S) OF SURVEY: March 8 & 9, 2016

CONSULTING FIRM: OHC Environmental Engineering, Inc.

5420 Bay Center Drive, Suite 100

Tampa, Florida 33609

SURVEYOR: Cristina Jones

FLAC:

James F. Rizk



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1.0 INTRODUCTION

OHC Environmental Engineering, Inc., (OHC), was contracted by Charles Flask of the MES Group to perform an Asbestos Survey in compliance with the National Emission Standard for Hazardous Air Pollutants (NESHAP) regulation for asbestos (40 CFR 61 Subpart M). In addition, a survey for lead-containing paint (LCP) was performed in the areas to be disturbed. The survey was conducted within Buildings 19, 38 and 64 at the Lake City VA Medical Center, located in Lake City, Florida. A representative from OHC and certified AHERA Building Inspector, Ms. Cristina Jones, visited the site on March 8 & 9 of 2016, to perform these services. This survey is limited to the identification and collection of Asbestos Containing Material (ACM) and LCP for the future Mechanical & Plumbing Improvements only.

2.0 SCOPE OF WORK

The scope of work for this survey included the following:

- A site visit and thorough NESHAP inspection by an Asbestos Hazard Emergency Response Act (AHERA) accredited asbestos building inspector working under the supervision of a Florida Licensed Asbestos Consultant (LAC) to identify suspect Asbestos Containing Material (ACM)
- A site visit and inspection by a trained Lead-Containing Paint (LCP) inspector
- Sampling, labeling and analyzing of accessible suspect ACM and LCP to be disturbed
- Preparation of a comprehensive report documenting the location and content of all materials sampled and analyzed, which includes suspect ACM, LCP, and the category and assessment of identified hazardous materials



3.0 EXECUTIVE SUMMARY

3.1 Asbestos Survey Results

Based on the results of the Polarized Light Microscopy (PLM) laboratory analysis, asbestos **does exist** within the scope of this survey in concentrations greater than 1% as indicated in Table 1 below.

TABLE 1: ASBESTOS-CONTAINING MATERIAL LAKE CITY VA MEDICAL CENTER MECHANICAL & PLUMBING IMPROVEMENTS MES GROUP HSA ocation # of HSA Samples Sample # Sample Location Material Des

HSA #	HSA Location	# of HSA Samples	Sample #	Sample Location	Material Description	Category							
5	Building 64	1	028-5A	Room BB26 – Above AC-7	Black mastic a/w square ductwork	NF-II							
26	Building	2	028-26A	Room AB30 – AC-1 pipe end	White mastic a/w AHU	NF-II							
20	64	2	028-26B	Room AB30 – AC-1 pipe elbow	water pipe	INF-11							
29	Building 64	1	028-29A	Penthouse B – AC-53 ductwork	Light brown mastic on metal ductwork	NF-II							
34	Building 64	1	028-34A	Rooftop of Penthouse B - AC-53 fan	Black & gray mastic at base of exhaust fan	NF-II							
35	Building 64	1	028-35A	Rooftop of Penthouse B - AC-53 fan	White & black mastic between roof exhaust fan	NF-II							
					028-57A	Attic Area – RH-1	White mastic a/w yellow						
57	Building 38	3	028-57B	Attic Area – AF-1	insul. and wrap on	NF-II							
	38									028-57C	Attic Area – RH-2	condensate pipe	

^{*}NF-II = Category II Non-Friable Asbestos Containing Material



3.2 Lead Survey Results

Based on the results of the laboratory analysis of paint chip samples, Lead-Containing Paint (LCP) and Lead-Based Paint (LBP) **do exist** within the scope of this survey, as indicated in Table 2 below.

TABLE 2: MATERIALS WITH LCP OR LBP LAKE CITY VA MEDICAL CENTER MECHANICAL & PLUMBING IMPROVEMENTS MES GROUP								
Sample #	Color	Substrate	Location	Concentration	Category			
028-Pb1	Beige	Pipe conduit	Central to Room BB26	0.22 % wt	LCP			
028-Pb2	White	Cinderblock wall	Throughout Room BB26	0.23 % wt	LCP			
028-Pb3	Red & Orange	Fire sprinklers	Throughout Room BB26	27 % wt	LBP			
028-Pb4	Beige	Brick wall	Throughout Room AB05	0.017 % wt	LCP			
028-Pb9	Beige	Concrete wall	Bldg 38 Elevator Machinery Room	0.021 % wt	LCP			

4.0 ASBESTOS SURVEY

The Environmental Protection Agency defines asbestos-containing material (ACM) as any material or product that contains more than one percent (1%) asbestos. Based on the observations and the laboratory analysis of the samples collected from the site, **ACM does exist** within the scope of this survey.

4.1 Asbestos Survey Results

Table 3 below summarizes the samples of suspect ACM collected from the area. These results indicate the homogenous sampling area (HSA) that the samples were collected from, the number of samples collected, sample numbers, type of materials, locations, and if the sample contains asbestos. Please refer to *Appendix A* of this report for photos of the materials sampled for asbestos and *Appendix C* for complete laboratory analytical results.



TABLE 3: ASBESTOS SURVEY RESULTS LAKE CITY VA MEDICAL CENTER MECHANICAL & PLUMBING IMPROVEMENTS MES GROUP

HSA	HSA	# of	g	G 17	36 . 135	Asbestos		
#	Location	Samples	Sample #	Sample Location	Material Description	Y/N		
1	Building	2	028-1A	BB26 – East wall	Gray spray-on fireproofing	N		
1	64	2	028-1B	BB26 – West ceiling		IN		
2	Building 64	1	028-2A	BB26 – Above AC-7	Flex ductwork a/w foil and tan fiberglass insulation	N		
3	Building 64	1	028-3A	Room BB26 – Along East wall	White coating beneath wrap a/w large water pipe	N		
4	Building 64	1	028-4A	BB26 – Along East wall	White foil paper wrap with fibers a/w large water pipe	N		
5	Building 64	1	028-5A	Room BB26 – Above AC-7	Black mastic a/w square ductwork	Y		
-	Building	2	028-6A	Room BB26 – AC-6	Black mastic around	N		
6	64	2	028-6B	Room BB26 – AC-7	AHUs	N		
7	Building	2	028-7A	Room BB26 – Column near AC-6	Black expansion joint	N		
7	64	2	028-7B	Room BB26 – Column near door	around concrete columns	N		
			028-8A	Room BB26 – Steam water pipe end				
8	Building 64	3	4 1778-XR	Room BB26 – Steam water pipe valve	White mastic a/w steam water pipes	N		
				028-8C	Room BB26 –Steam water pipe elbow			
9	Building 64	1	028-9A	Room AB05B – Boiler room	White fibrous hot pipe wrap	N		
10	Building		2	028-10A	Room AB05B – Boiler room	White mastic on steam	N	
10	64	2	028-10B	Room AB05B – Boiler room	water pipe ends	IN		
11	Building	2	028-11A	Room AB05B – Boiler room	Gray wrap around steam	N		
11	64	2	028-11B	Room AB05B – Boiler room	water pipes	11		
12	Building	2	028-12A	Room AB05B – Boiler room	Gray spray-on fireproofing	N		
12	64	2	028-12B	Room AB05B – Boiler room	on ceiling	11		
13	Building 64	1	028-13A	Room AB05 – HV-013 unit	Tan caulking around AHU and concrete wall	N		
14	Building 64	1	028-14A	Room AB05 – HV-013 unit	Gray mastic around AHU	N		
15	Building	2	028-15A	Room AB05 – HV-013 unit	White mastic a/w wrap	NT		
13	64	2	028-15B	Room AB05 – HV-013 unit	around water pipes	N		
	Duilding		028-16A	Room AB05 – HV-013 ductwork	White duct wrap a/w			
16	Building 64	ag 2	2	2	028-16B	AB05 – HV-013 ductwork near grill	yellow fiberglass insulation	N



17	Building	1	028-17A	Doom AD05 throughout	Brown cork-like ceiling	N
1 /	64	1	028-17A	Room AB05 – throughout	sheets	N
18	Building 64	1	028-18A	Room AB18K – AC-12	Black mastic a/w exterior metal AHU	N
19	Building 64	1	028-19A	Room AB18K – AC-12DX unit	White mastic a/w exterior metal AHU	N
20	Building 64	1	028-20A	Room AB18K – AC-12 water pipes	White mastic a/w foil paper wrap around water pipes	N
21	Building 64	1	028-21A	AB18K	GWBS a/w joint compound	N
22	Building 64	1	028-22A	Room AB28 (SPS)	White 4x2 ceiling tiles throughout	N
23	Building 64	1	028-23A	Hallway in front of Room BB03	White mastic a/w metal ductwork throughout SPS	N
24	Building 64	1	028-24A	Room AB30 – AC-1 unit	White mastic a/w foil paper and black insulation on AHU	N
25	Building 64	1	028-25A	Room AB30 – AC-1 unit	White mastic a/w foil paper and yellow insulation on AHU	N
26	Building 64	2	028-26A 028-26B	Room AB30 – AC-1 pipe end Room AB30 – AC-1 pipe elbow	White mastic a/w AHU water pipe	Y
27	Building 64	1	028-27A	Room AB30 – AC-1 ductwork	Light brown mastic on metal ductwork	N
28	Building 64	1	028-28A	Room B118	Pink 12x12 vinyl floor tile a/w yellow mastic	N
29	Building 64	1	028-29A	Penthouse B – AC-53 ductwork	Light brown mastic on metal ductwork	Y
30	Building 64	1	028-30A	Penthouse B – AC-53 ductwork	White mastic a/w foil paper wrap & yellow fiberglass insulation	N
31	Building 64	1	028-31A	Penthouse B – AC-53 unit	Grey caulk around AHU cover	N
32	Building	2	028-32A	Penthouse B – AC-53 water pipes	White mastic a/w stink rock around chilled water	N
32	64	2	028-32B	Penthouse B – AC-53 water pipes	pipes	11/
33	Building	2	028-33A	Penthouse B – AC-53 steam pipe	White mastic a/w foil paper wrap & yellow	N
	64	-	028-33B	B302 – steam pipe above ceiling grid	fiberglass insulation	11
34	Building 64	1	028-34A	Rooftop of Penthouse B – AC-53 fan	Black & gray mastic at base of exhaust fan	Y
35	Building 64	1	028-35A	Rooftop of Penthouse B – AC-53 fan	White & black mastic between roof and exhaust fan	Y



36	Building 64	1	028-36A	Penthouse A – AC-55 ductwork	Foil paper wrap a/w pink fiberglass insul. & black mastic	N
37	Building 64	1	028-37A	Penthouse A – AC-55 water pipe	Beige mastic a/w black stink rock on chilled water pipe	N
38	Building 19	1	028-38A	Room B9A – AC-6 unit	Black gasket between metal panels on AHU	N
39	Building 19	1	028-39A	Room B9A – AC-6 water pipe elbow	White mastic a/w black stink rock on chilled water pipe	N
40	Building 19	1	028-40A	Room B9A – AC-6 steam pipe end	White mastic a/w yellow fiberglass insul. on steam pipe	N
41	Building 19	1	028-41A	Room B9A – AC-6 ductwork	Gray mastic between metal ductwork and insulation	N
42	Building 19	1	028-42A	Room 115 – AC-5 water pipe	White mastic a/w yellow insulation on hot water pipe	N
43	Building 19	1	028-43A	Room 115 – AC-5 water pipe	White mastic a/w black stink rock on chilled water pipe	N
44	Building 19	1	028-44A	Room 115 – AC-5 water pipe	White paper foil wrap a/w black stink rock on chilled water pipe	N
45	Building 19	1	028-45A	Room 115 throughout floor	Beige 12x12 vinyl floor tile a/w black mastic	N
46	Building 19	1	028-46A	Room 103 – AC-4 unit	Black gasket between metal panels on AHU	N
47	Building 19	1	028-47A	Room 103 – AC-4 unit	Gray mastic on exterior of metal AHU panels	N
48	Building 19	1	028-48A	Room 103 – AC-4 water pipes	White mastic a/w wrap and yellow insulation on hot water pipes	N
49	Building 19	1	028-49A	Room 103 throughout floor	Beige 12x12 vinyl floor tile a/w black mastic	N
50	Building 19	1	028-50A	Room 103 – AC-4 water pipes	White mastic a/w black stink rock on chilled water pipes	N
51	Building 19	1	028-51A	Canteen plenum – AC-2	Brown mastic a/w black fiberglass insul. and wrap on ductwork	N
52	Building 19	1	028-52A	Canteen plenum – AC-2 water pipe	White mastic a/w black fiberglass insul. and wrap on hot water pipe	N
53	Building 19	1	028-53A	Room 103 – AC-4 ductwork	Yellow mastic a/w yellow fiberglass insul. and wrap on ductwork	N
54	Building 19	1	028-54A	Rooftop of kitchen – RUUD AHU	Black gasket between metal panels on AHU	N



55	Building 38	3	028-55A 028-55B 028-55C	Attic Area – AC-1 Attic Area – AF-1 Attic Area – AC-2	White mastic a/w yellow fiberglass insul. and wrap on ductwork	N
56	Building 38	1	028-56A	Attic Area – AF-1	Light brown mastic on exterior of metal AHU panels	N
	D 1111		028-57A	Attic Area – RH-1	White mastic a/w yellow	
57	Building 38	3	028-57B	Attic Area – AF-1	insul. and wrap on	Y
				028-57C	Attic Area – RH-2	condensate pipe
	Building		028-58A	Attic Area – AF-1 supply	Blue wrap a/w white	
58	38	2	028-58B	Attic Area – RH-2 return	mastic on chilled water supply line	N
59	Building 38	1	028-59A	Attic Area – AC-1	Black gasket between metal AHU panels	N
60	Building 38	1	028-60A	Attic Area – interior wall	Red corrugated wall tiles with concrete-like grout	N
61	Building 38	1	028-61A	Rooftop louvre adjacent to attic area	Black caulking around exterior louvre	N

4.2 Asbestos Sampling Methods

The surveyor conducted a visual inspection of every safe and reasonably accessible room and space of the building and identified homogeneous areas based on the texture, appearance, and use of suspect ACM. Bulk samples of all friable and nonfriable suspect ACM were collected, as well as a representative number of samples from each homogeneous area following the EPA's simplified random sampling method (EPA560/585-030a). Good Industrial Hygiene practices were followed when collecting bulk samples in order to minimize fiber release. Every precaution was taken to prevent asbestos exposure to the surveyor, the building occupants, and the public. All sample locations were logged with an appropriate description and the locations were marked on any available drawings. A unique sequential numbering system was used to identify each area. Each bulk sample was placed in a labeled bag, which was immediately marked with its sample number. A chain of custody form was submitted with each sample group for analysis and signed by the receiving laboratory personnel who handled the samples. The samples were analyzed by EMSL Analytical, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory, for asbestos content.

4.3 Regulatory Requirements

Demolition

According to NESHAP, 40CFR61 Subpart M, demolition is defined as the wrecking or taking out of any load-supporting structural member of a facility together with



any related handling operations or the intentional burning of any facility. The final NESHAP Rule provides classification for regulated asbestos containing material as follows:

- Friable asbestos material;
- Category I non-friable ACM that has become friable;
- Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading; or
- Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by forces expected to act upon the material in the course of demolition or renovation operations.

If the total asbestos content is determined to be trace to 10%, the owner must either assume that the material contains greater than 1% asbestos and treat the material as regulated asbestos-containing material (RACM) or have the material verified/quantified by point counting. If after point counting, the material is quantified as 1% or less, it is not regulated by the NESHAP.

The Occupational Safety and Health Administration (OSHA) considers material that contains any amount of asbestos as asbestos-containing and requires compliance with OSHA regulations. The demolition of a structure with materials present that contain any amount of asbestos is considered by OSHA as an asbestos abatement, and all applicable OSHA rules must be complied with during the demolition.

Notification

Notification is required to the local regulatory agency:

- 1. Ten (10) working days prior to a demolition.
- 2. Ten (10) working days prior to a renovation operation, if the amount of asbestos material removed or impacted is greater than 160 sq. ft. on all building components (i.e. floor tile, mastic, GWBS, etc.) or 260 lin. ft. on pipes.
- 3. One (1) day prior to demolition, if the building has been condemned and is structurally unsound as determined by the appropriate agency.

Notification must be sent by certified mail with return receipt or hand delivered to the Florida Department of Environmental Protection.

The demolition contractor must wait ten (10) working days (Monday – Friday) from the postmarked date of mailing or the date of hand delivery to commencement of demolition.

Any change to the start date of the demolition requires notification to the agency by phone, followed by a written revision to the Notification Form.



4.4 Statutory Requirements

The regulatory agency responsible for the oversight of the rules pertaining to asbestos-containing building materials (ACBM) is the Environmental Protection Agency (EPA). The regulations state that prior to demolition or renovation a facility survey must be conducted in accordance to section 40 CFR 61-M National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Revisions, Final Rule. Enforcement of these rules was passed on to the states. In the State of Florida they are enforced by the Department of Environmental Protection (DEP). Some counties have developed an enforcement division to carry out the responsibilities of the DEP and have developed environmental and asbestos ordinances with which compliance is required.

5.0 LEAD SURVEY

Based on the laboratory analysis of paint chip samples, Lead-Containing Paint (LCP) and Lead-Based Paint (LBP) do exist in the areas to be disturbed.

5.1 Lead Survey Results

Table 4 below summarizes the materials tested for lead and includes their color, substrate, description and location, and lead content. Note that Sample 028-Pb3 is considered Lead-Based Paint (LBP). Please refer to Appendix B of this report for photos of the materials sampled for lead and Appendix D for complete laboratory analytical results.

	TABLE 4: LEAD SURVEY RESULTS LAKE CITY VA MEDICAL CENTER MECHANICAL & PLUMBING IMPROVEMENTS MES GROUP									
Sample #	Color	Substrate	Location	Concentration	Category					
028-Pb1	Beige	Pipe conduit	Building 64 – central to Room BB26	0.22 % wt	LCP					
028-Pb2	White	Cinderblock wall	Building 64 – throughout Room BB26	0.23 % wt	LCP					
028-Pb3	Red & Ruilding 64 – throughout									



028-Pb4	Beige	Brick wall	Building 64 – throughout Room AB05	0.017 % wt	LCP
028-Pb5	White	Brick wall	Building 64 – throughout Room AB30	<0.010 % wt	
028-Pb6	Black	Exterior louvres	Building 64 – Outside Room AB30	<0.011 % wt	
028-Pb7	White	Rooftop tar	Building 64 – Penthouse B rooftop	<0.010 % wt	
028-Pb8	Beige	Individual AHU	Building 19 – Room B11	<0.010 % wt	
028-Pb9	Beige	Concrete wall	Bldg 38 – Elevator Machinery Room	0.021 % wt	LCP

5.2 Lead Sampling Methods

All samples were collected by a trained Lead-Containing Paint inspector, placed in a sterile bag, labeled, and submitted with a Chain of Custody. All samples were analyzed via Flame Atomic Absorption Spectroscopy (FAAS) by EMSL Analytical, a nationally accredited laboratory.

5.3 Standards for Lead-Based Paint

There is presently no standard on the level of lead in paint other than the HUD guidelines of 0.5% by weight or 1.0 mg/cm² for Lead-Based Paint (LBP), which is used as a threshold for remedial action. OSHA, on the other hand, does not recognize these criteria. Any levels of lead in paint are considered Lead-Containing Paint (LCP). The U.S. Consumer Product Safety Commission has established a level of 0.06% by weight as a threshold for lead-free paint. OSHA's standards for lead are based on the potential for human exposure by means of inhalation and ingestion. Therefore, any substrate with any level of LCP could cause health concerns when the paint is disturbed. Performing activities could create airborne exposures of lead above the PEL. Any persons performing any lead activities such as LCP renovation, repair, painting, or maintenance that may disturb the paint must be certified by EPA to perform these activities in accordance with the Renovation, Repair, and Painting (RRP) rule 40 CFR 745 Subpart E.



6.0 OBSERVATIONS

- Fireproofing located throughout Room AB05B of Building 64 (no ACM detected)
- HV-64 in Room AB05 of Building 64 will be completely disposed of (Beige paint on brick wall is LCP; no ACM detected)
- No ductwork or insulation will be disturbed in Room B118 of Building 64; only floor tile and AHU which will be disposed of

7.0 LIMITATIONS

This survey is limited to the future Mechanical & Plumbing Improvements Project by the MES Group at the Lake City VA Medical Center only. OHC warrants that the investigations and methodology reflect the prevailing standard of work practices in the environmental consulting field. If it is expected that materials outside the scope of this survey are to be disturbed, they must be presumed ACM until the materials can be analyzed by an accredited asbestos building inspector.

The materials sampled in this survey were subject to accessibility. The following are materials that could not be sampled and must be presumed ACM unless determined otherwise:

- Any gaskets associated with valves or flanges (i.e. Room AB05B boiler room)
- Ductwork in Building 19, AC-5 in Room 115
- Chilled water pipe associated with AC-2 within Building 19 Canteen Plenum

8.0 DOCUMENT CONTENT

The knowledge of the consultant is based upon current information and research. If local knowledge indicates error, omissions, or inaccuracy, please notify the consultant.



APPENDIX A:

PHOTOGRAPHS OF MATERIALS SAMPLED FOR ASBESTOS





Mechanical Room BB26 in Building 64, showing AHU and ductwork



HSA-1
Gray spray-on fireproofing
[Building 64 Room BB26 – AHU-6 & AHU-7]





HSA-2
Flex ductwork associated with foil and tan fiberglass insulation
[Building 64 Room BB26 – AHU-6 & AHU-7]



Large water pipe within Room BB26 of Building 64 [HSA-3 & HSA-4]





HSA-3
White coating beneath wrap associated with large water pipe
[Building 64 Room BB26 – AHU-6 & AHU-7]



HSA-4
White foil paper wrap with fibers associated with large water pipe
[Building 64 Room BB26 – AHU-6 & AHU-7]





Square ductwork throughout Room BB26 in Building 64 containing

HSA-5 (ACM)



HSA-5
Black mastic associated with square ductwork
[Building 64 Room BB26 – AC-7]





HSA-6
Black mastic around AHUs
[Building 64 Room BB26 – AHU-6 & AHU-7]



HSA-7
Black expansion joint around concrete columns ex ductwork associated with foil and tan fiberglass insulation [Building 64 Room BB26]





Water pipes located throughout Room BB26 in Building 64



HSA-8
White mastic associated with steam water pipes
[Building 64 Room BB26 – AHU-6 & AHU-7]



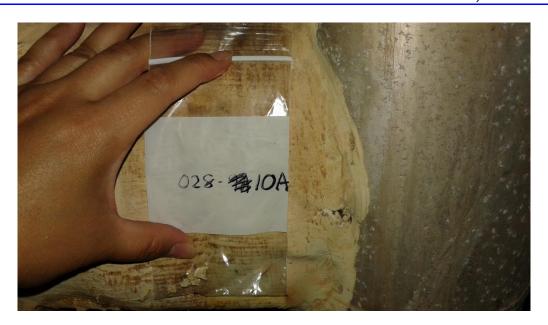


Boiler Room AB05 in Building 64



HSA-9
White fibrous hot pipe wrap
[Building 64 Boiler Room AB05B]





HSA-10
White mastic on steam water pipe ends
[Building 64 Boiler Room AB05B]



HSA-11
Gray wrap around steam water pipes
[Building 64 Boiler Room AB05B]





HSA-12
Gray spray-on fireproofing throughout ceiling
[Building 64 Boiler Room AB05B]



HSA-13
Tan caulking around AHU and concrete wall
[Building 64 Room AB05 – HV-013]





HSA-14
Gray mastic around AHU
[Building 64 Room AB05 – HV-013]



HSA-15White mastic associated with wrap around water pipes
[Building 64 Room AB05 – HV-013]





HSA-16
White duct wrap associated with yellow fiberglass insulation
[Building 64 Room AB05 – HV-013]



HSA-17
Brown cork-like ceiling sheets
[Building 64 Room AB05]





Mechanical Room AB18K in Building 64



HSA-18
Black mastic associated with exterior metal AHU
[Building 64 Room AB18K – AC-12]





HSA-19
White mastic associated with exterior metal AHU
[Building 64 Room AB18K – AC-12]

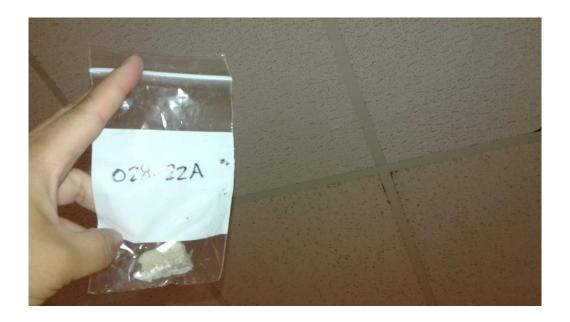


HSA-20White mastic associated with foil paper wrap around water pipes
[Building 64 Room AB18K – AC-12]





HSA-21 GWBS associated with joint compound [Building 64 Room AB18K – AC-12]



HSA-22 White 4x2 ceiling tiles throughout SPS in Building 64 [Building 64 Room AB28 (SPS)]





HSA-23
White mastic associated with metal ductwork throughout SPS in Building 64 [Building 64 Room BB03 Hallway (SPS)]



HSA-24White mastic associated with foil paper and black insulation on AHU [Building 64 Room AB30 – AC-1]



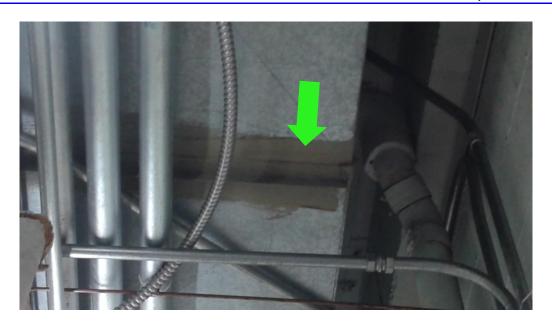


HSA-25
White mastic associated with foil paper and yellow insulation on AHU
[Building 64 Room AB30 – AC-1]



HSA-26 White mastic associated with AHU water pipe [Building 64 Room AB30 – AC-1]





HSA-27
Light brown mastic on metal ductwork
[Building 64 Room AB30 – AC-1]



HSA-28
Pink 12x12 vinyl floor tile associated with yellow mastic [Building 64 Room B118]





Penthouse B of Building 64

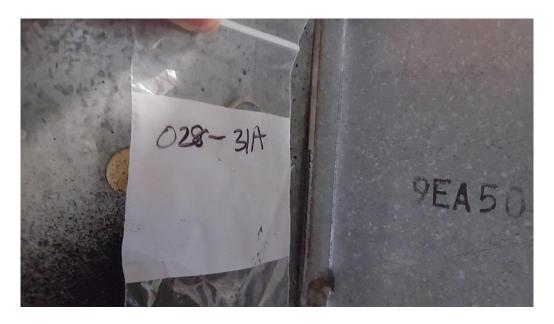


HSA-29
Light brown mastic on metal ductwork
[Building 64 Penthouse B – AC-53]





 $\begin{tabular}{ll} HSA-30 \\ White mastic associated with foil paper wrap \& yellow fiberglass \\ insulation [Building 64 Penthouse B - AC-53] \\ \end{tabular}$



HSA-31
Grey caulk around AHU cover
[Building 64 Penthouse B – AC-53]





 $\begin{tabular}{ll} HSA-32 \\ White mastic associated with stink rock around chilled water pipes \\ [Building 64 Penthouse B - AC-53] \end{tabular}$



HSA-33White mastic associated with foil paper wrap & yellow fiberglass insulation [Building 64 Penthouse B – AC-53]





Exhaust fan on rooftop of Penthouse B in Building 64, containing HSA-34 (ACM) and HSA-35 (ACM)



HSA-34
Black & gray mastic at base of exhaust fan
[Building 64 Penthouse Rooftop – AC-53]





HSA-35
White & black mastic between roof and exhaust fan
[Building 64 Penthouse Rooftop – AC-53]

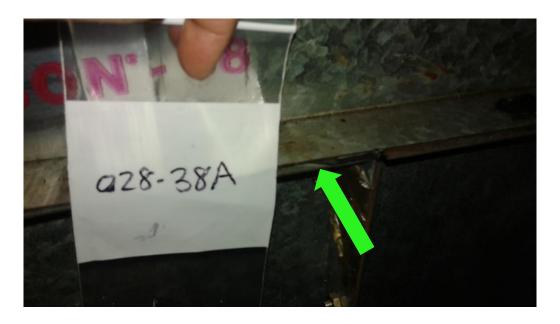


HSA-36
Foil paper wrap associated with pink fiberglass insulation & black mastic [Building 64 Penthouse A – AC-55]





HSA-37
Beige mastic associated with black stink rock on chilled water pipe
[Building 64 Penthouse A – AC-55]



HSA-38
Black gasket between metal panels on AHU
[Building 19 B9A – AC-6]



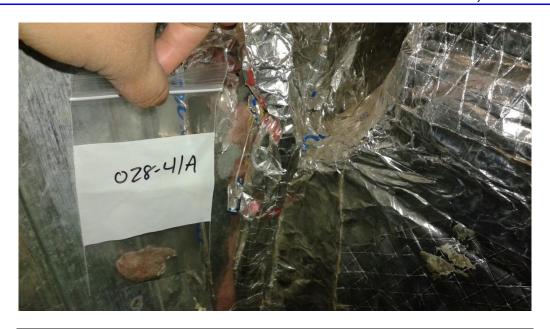


HSA-39
White mastic associated with black stink rock on chilled water pipe
[Building 19 B9A – AC-6]



HSA-40White mastic associated with yellow fiberglass insulation on steam pipe
[Building 19 B9A – AC-6]





HSA-41
Gray mastic between metal ductwork and insulation
[Building 19 B9A – AC-6]

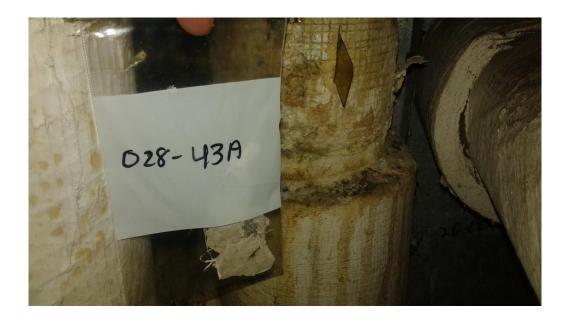


AC-5 located in Room 115 of Building 19





HSA-42
White mastic associated with yellow insulation on hot water pipe
[Building 19 Room 115 – AC-5]



HSA-43White mastic associated with black stink rock on chilled water pipe
[Building 19 Room 115 – AC-5]





HSA-44White paper foil wrap associated with black stink rock on chilled water pipe [Building 19 Room 115 – AC-5]



HSA-45
Beige 12x12 vinyl floor tile associated with black mastic
[Building 19 Room 115]





AC-4 located in Room 103 of Building 19



HSA-46
Black gasket between metal panels on AHU
[Building 19 Room 103 – AC-4]





HSA-47Gray mastic on exterior of metal AHU panels
[Building 19 Room 103 – AC-4]



HSA-48White mastic associated with wrap and yellow insulation on hot water pipes [Building 19 Room 103 – AC-4]



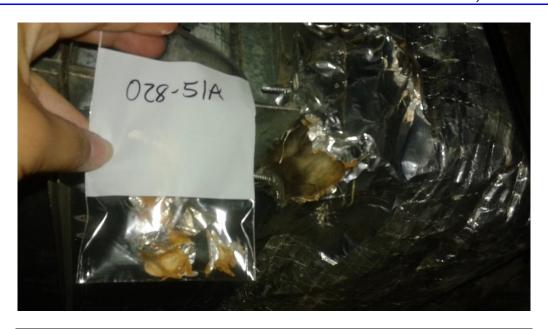


HSA-49
Beige 12x12 vinyl floor tile associated with black mastic
[Building 19 Room 103]



HSA-50
White mastic associated with black stink rock on chilled water pipes
[Building 19 Room 103 – AC-4]





HSA-51
Brown mastic associated with black fiberglass insulation and wrap on ductwork [Building 19 Canteen plenum – AC-2]



HSA-52
White mastic associated with black fiberglass insulation and wrap on hot water pipe [Building 19 Canteen plenum – AC-2]





HSA-53
Yellow mastic associated with yellow fiberglass insulation and wrap on ductwork [Building 19 Canteen plenum – AC-2]



RUUD unit on kitchen rooftop of Building 19



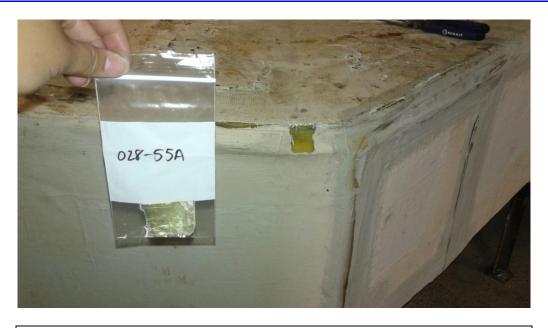


HSA-54
Black gasket between metal panels on AHU
[Building 19 Kitchen Rooftop – RUUD unit]



Attic Area of Building 38





HSA-52
White mastic associated with yellow fiberglass insulation and wrap on ductwork [Building 38 Attic Area – AHU-1 & AHU-2]



HSA-56
Light brown mastic on exterior of metal AHU panels
[Building 38 Attic Area – AHU-1 & AHU-2]





HSA-57
White mastic associated with yellow insulation and wrap on condensate pipe [Building 38 Attic Area – AHU-1 & AHU-2]



HSA-58
Blue wrap associated with white mastic on chilled water supply line
[Building 38 Attic Area – AHU-1 & AHU-2]





HSA-59
Black gasket between metal AHU panels
[Building 38 Attic Area – AHU-1 & AHU-2]



HSA-61
Black caulking around exterior louvre
[Building 38 Rooftop Area]



APPENDIX B:

PHOTOGRAPHS OF MATERIALS SAMPLED FOR LEAD





028-Pb1Beige paint on pipe conduit (LCP)
[Building 64 Room BB26]



028-Pb2White paint on cinderblock wall (LCP)
[Building 64 Room BB26]



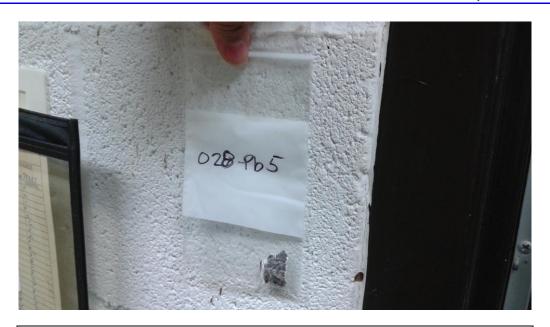


028-Pb3
Red & orange paint on fire sprinklers (LBP)
[Building 64 Room BB26]



028-Pb4Beige paint on brick wall (LCP)
[Building 64 Room AB05]





028-Pb5White paint on brick wall
[Building 64 Room AB30]



028-Pb6Black paint on exterior louvres
[Building 64 Room AB30]





028-Pb7White paint on rooftop tar
[Building 64 Penthouse B Rooftop]



028-Pb8Beige paint on individual AHU
[Building 19 Room B11]





028-Pb9Beige paint on concrete wall (LCP)
[Building 38 Elevator Machinery Room]



APPENDIX C:

ASBESTOS LABORATORY ANALYTICAL RESULTS





5125 Adanson Street, Suite 900 Orlando, FL 32804 Tel/Fax: (407) 599-5887 / (407) 599-9063 http://www.EMSL.com / orlandolab@emsl.com EMSL Order: 341602752 Customer ID: OCCU56 Customer PO:

Attention: Cristina Jones

OHC Environmental Engineering, Inc.

5420 Bay Center Drive Suite 100 Tampa, FL 33609

Project: 1600028-AL Lake City VA

Phone: (813) 500-8564 Fax: (813) 623-6702

Project ID:

Received Date: 03/11/2016 10:50 AM Analysis Date: 03/14/2016 Collected Date: 03/08/2016

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos			Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
028-1A	BB26 - East Wall -	Gray	80% Glass	20% Non-fibrous (Other)	None Detected	
	Gray Spray-on	Fibrous				
341602752-0001	Fireproofing	Homogeneous				
028-1B	BB26 - West Ceiling -	Gray	70% Glass	10% Ca Carbonate	None Detected	
	Gray Spray-on	Fibrous		20% Non-fibrous (Other)		
341602752-0002	Fireproofing	Homogeneous				
028-2A-Wrap	BB26 - Above AC-7 -	Brown/Sillver	40% Cellulose	45% Non-fibrous (Other)	None Detected	
	Flex Ductwork A/W	Fibrous	15% Glass			
341602752-0003	Foil And Tan	Homogeneous				
	Fiberglass Insulation					
028-2A-Insulation	BB26 - Above AC-7 -	Pink	98% Glass	2% Non-fibrous (Other)	None Detected	
	Flex Ductwork A/W	Fibrous				
341602752-0003A	Foil And Tan	Homogeneous				
	Fiberglass Insulation					
028-3A	Room BB26 - Along	White	35% Cellulose	5% Ca Carbonate	None Detected	
	East Wall - White	Fibrous		5% Mica		
341602752-0004	Coating Beneath	Heterogeneous		55% Non-fibrous (Other)		
	Wrap A/W Large Water Pipe					
000.44		White/Silver	40% Cellulose	45% Non-Shares (Other)	None Detected	
028-4A	BB26 - Along East Wall - White Foil	Fibrous	15% Glass	45% Non-fibrous (Other)	None Detected	
341602752-0005	Paper Wrap With	Homogeneous	1370 Glass			
341402132.0000	Fibers A/W Large	riollogeneous				
	Water Pipe					
028-5A-Mastic	Room BB26 - Above	Black	10% Glass	82% Non-fibrous (Other)	8% Chrysotile	
	AC-7 - Black Mastic	Fibrous		,	,	
341602752-0006	A/W Square Ductwork	Heterogeneous				
Inseparable layer included	in analysis					
028-5A-Wrap	Room BB26 - Above	White/Silver	45% Cellulose	45% Non-fibrous (Other)	None Detected	
	AC-7 - Black Mastic	Fibrous	10% Glass			
341802752-0006A	A/W Square Ductwork	Homogeneous				
028-5A-Insulation	Room BB26 - Above	Yellow	98% Glass	2% Non-fibrous (Other)	None Detected	
	AC-7 - Black Mastic	Fibrous				
341602752-0006B	A/W Square Ductwork	Homogeneous				
028-6A	Room BB26 - AC-6 -	Black		100% Non-fibrous (Other)	None Detected	
	Black Mastic Around	Non-Fibrous				
341602752-0007	AHUs	Homogeneous				
028-6B	Room BB26 - AC-7 -	Black		100% Non-fibrous (Other)	None Detected	
	Black Mastic Around	Fibrous				
341602752-0008	AHUs	Homogeneous				
028-7A	Room BB26 - Column	Brown/Black	40% Cellulose	60% Non-fibrous (Other)	None Detected	
	Near AC-6 - Black	Fibrous				
341602752-0009	Expansion Joint	Heterogeneous				
	Around Concrete Columns					
				1911 11 91 1911 1		
028-7B	Room BB26 - Column	Brown/Black	55% Cellulose	45% Non-fibrous (Other)	None Detected	
341602752-0010	Near Door - Black	Fibrous				
341002/32-0010	Expansion Joint Around Concrete	Homogeneous				
	Columns					
	COMMINIS					

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EMSL Order: 341602752 Customer ID: OCCU56 Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description Ap	ppearance	% Fibrous	% Non-Fibrous	% Type
028-8A		own/White	5% Wollastonite	95% Non-fibrous (Other)	None Detected
		on-Fibrous			
341602752-0011	White Mastic A/W Ho Steam Water Pipes	omogeneous			
028-8B-Mastic		hite		100% Non-fibrous (Other)	None Detected
020-0D-WasiiC		on-Fibrous		100 % Noti-fibrous (Other)	TYDIIC Detected
341602752-0012		omogeneous			
	Steam Water Pipes				
028-8B-Insulation		own	5% Wollastonite	95% Non-fibrous (Other)	None Detected
		brous			
341602752-0012A		omogeneous			
	Steam Water Pipes		45% 0-8-4	TON No. 51 (Others	No Potential
028-8C-Mastic		hite/Silver brous	15% Cellulose 10% Glass	72% Non-fibrous (Other)	None Detected
341602752-0013		eterogeneous	3% Wollastonite		
	Steam Water Pipes	otorogonoous	o is tronsacting		
Inseparable wrap layer incl					
028-8C-Insulation	Room BB26 - Steam Ye	llow	95% Glass	5% Non-fibrous (Other)	None Detected
	Water Pipe Elbow - Fil	brous			
341602752-0013A		omogeneous			
	Steam Water Pipes				
028-9A		hite	98% Glass	2% Non-fibrous (Other)	None Detected
		brous			
341602752-0014		omogeneous			
028-10A		hite brous	3% Glass 3% Wollastonite	94% Non-fibrous (Other)	None Detected
341602752-0015		eterogeneous	3% Wollastonite		
341002732-0013	Ends	storogeneous			
Result includes a small amo	ount of inseparable attached material				
028-10B	Room AB05B - Boiler Va	rious	10% Cellulose	80% Non-fibrous (Other)	None Detected
		brous	5% Glass		
341602752-0016		eterogeneous	5% Wollastonite		
Deput includes a small am	Ends				
	ount of inseparable attached material				
028-11A		hite brous	98% Glass	2% Non-fibrous (Other)	None Detected
341602752-0017		orous omogeneous			
341902732-0017	Pipes	orriogeneous			
028-11B		hite/Silver	90% Glass	10% Non-fibrous (Other)	None Detected
		brous		,,	
341602752-0018	Around Steam Water Ho	omogeneous			
	Pipes				
028-12A		m/White	90% Cellulose	10% Non-fibrous (Other)	None Detected
		brous			
341602752-0019		eterogeneous			
Inseparable paint / coating i	On Ceiling				
		-	OFFIC Callulana	Ett Non-Ehrenn (Other)	Ness Date -td
028-12B		in brous	95% Cellulose	5% Non-fibrous (Other)	None Detected
341602752-0020		orous omogeneous			
AT LANE LANE AMEN	On Ceiling	on ogeneous			
028-13A	Room AB05 - HV-013 Ta	ın		100% Non-fibrous (Other)	None Detected
20.01		on-Fibrous		(training of family	110110 20100004
341602752-0021		omogeneous			
	Concrete Wall				
028-14A	Room AB05 - HV-013 Gr	ray		100% Non-fibrous (Other)	None Detected
	,	on-Fibrous			
341602752-0022	Around AHU Ho	omogeneous			

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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbest		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
028-15A-Mastic	Room AB05 - HV-013 Unit - White Mastic A/W Wrap Around	White/Silver Fibrous	15% Cellulose 5% Glass	80% Non-fibrous (Other)	None Detected
	Water Pipes	Heterogeneous			
nseparable wrap layer inclu					
028-15A-Insulation	Room AB05 - HV-013 Unit - White Mastic	Yellow Fibrous	98% Glass	2% Non-fibrous (Other)	None Detected
341602752-0023A	A/W Wrap Around Water Pipes	Homogeneous			
028-15B-Mastic	White Mastic A/W Wrap Around Water	White/Silver Fibrous	<1% Cellulose <1% Glass	97% Non-fibrous (Other)	None Detected
341602752-0024 Inseparable wrap layer inclu	Pipes	Heterogeneous	3% Wollastonite		
028-15B-Insulation	White Mastic A/W	Yellow Fibrous	95% Glass	5% Non-fibrous (Other)	None Detected
341602752-0024A	Wrap Around Water Pipes	Homogeneous			
028-16A-Wrap	Room AB05 - HV-013	White/Silver	15% Cellulose	78% Non-fibrous (Other)	None Detected
341602752-0025	Ductwork - White Duct Wrap A/W	Fibrous Heterogeneous	5% Glass 2% Wollastonite		
	Yellow Fiberglass Insulation				
Inseparable mastic layer inci	luded in analysis				
028-16A-Insulation	Room AB05 - HV-013 Ductwork - White	Yellow Fibrous	98% Glass	2% Non-fibrous (Other)	None Detected
341602752-0025A	Duct Wrap A/W Yellow Fiberglass	Homogeneous			
	Insulation				
028-16B	AB05 - HV-013 Ductwork Near Grill -	White/Yellow Fibrous	10% Cellulose 5% Glass	83% Non-fibrous (Other)	None Detected
341602752-0026	White Duct Wrap A/W	Heterogeneous	2% Wollastonite		
	Yellow Fiberglass Insulation				
028-17A	Room AB05 - Throughout - Brown	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
341602752-0027	Cork-like Ceiling Sheets	Homogeneous			
028-18A	Room AB18K - AC-12	Black	5% Cellulose	95% Non-fibrous (Other)	None Detected
341802752-0028	 Black Mastic A/W Exterior Metal AHU 	Non-Fibrous Homogeneous			
028-19A	Room AB18K -	White/Silver/Beige	3% Cellulose	97% Non-fibrous (Other)	None Detected
341602752-0029	AC-12DX Unit - White Mastic A/W Exterior	Non-Fibrous Heterogeneous			
Danuit instantan a securi	Metal AHU	and and			
	unt of inseparable attached mate		524 OI	ACM N. Cl. (OIL)	
028-20A-Mastic	Room AB18K - AC-12 Water Pipes - White	White Fibrous	5% Glass <1% Wollastonite	95% Non-fibrous (Other)	None Detected
341602752-0030	Mastic A/W Foil Paper Wrap Around	Heterogeneous			
Inseparable wrap layer inclu	Water Pipes				
028-20A-Insulation	Room AB18K - AC-12	White	65% Cellulose	5% Non-fibrous (Other)	None Detected
	Water Pipes - White	Fibrous	30% Glass	on non-notous (other)	Notice Detected
341602752-0030A	Mastic A/W Foil Paper Wrap Around Water Pipes	Heterogeneous			
028-21A-Gypsum	AB18K - GWBS A/W	Brown/Gray	60% Cellulose	30% Gypsum	None Detected
Wallboard	Joint Compound	Fibrous Homogeneous	<1% Glass	10% Non-fibrous (Other)	
341602752-0031					

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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbest		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
028-21A-Joint	AB18K - GWBS A/W	White		20% Ca Carbonate	None Detected
Compound	Joint Compound	Non-Fibrous Heterogeneous		80% Non-fibrous (Other)	
341602752-0031A		Heterogeneous			
Inseparable paint / coating I	layer included in analysis				
028-22A	Room AB28 (SPS) -	Gray/White	65% Cellulose	20% Perlite	None Detected
	White 4x2 Ceiling	Fibrous		15% Non-fibrous (Other)	
341602752-0032 Inseparable paint / coating l	Tiles Throughout	Homogeneous			
		0		400% No. 50 (0%)	N B-tt-d
028-23A	Hallway In Front Of Room BB03 - White	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
341602752-0033	Mastic A/W Metal	Homogeneous			
	Ductwork Throughout				
	SPS				
028-24A-Mastic	Room AB30 - AC-1	White	15% Cellulose	80% Non-fibrous (Other)	None Detected
	Unit - White Mastic	Fibrous	3% Glass		
341602752-0034	A/W Foil Paper And	Heterogeneous	2% Wollastonite		
	Black Insulation On AHU				
nseparable wrap layer inclu					
028-24A-Insulation	Room AB30 - AC-1	Brown	98% Glass	2% Non-fibrous (Other)	None Detected
/20-2-1/1-III adiaudil	Unit - White Mastic	Fibrous	are in Greate	En Horrisons (Other)	Home Develop
341602752-0034A	A/W Foil Paper And	Homogeneous			
	Black Insulation On				
	AHU				
028-25A-Mastic	Room AB30 - AC-1	White/Silver	15% Cellulose	75% Non-fibrous (Other)	None Detected
	Unit - White Mastic	Fibrous	10% Glass		
341602752-0035	A/W Foil Paper And Yellow Insulation On	Heterogeneous			
	AHU				
Inseparable wrap layer inclu					
028-25A-Insulation	Room AB30 - AC-1	Yellow	98% Glass	2% Non-fibrous (Other)	None Detected
	Unit - White Mastic	Fibrous			
341602752-0035A	A/W Foil Paper And	Homogeneous			
	Yellow Insulation On AHU				
200 204 Martin	Room AB30 - AC-1	White	2% Wollastonite	DEST Non-Ehrous (Other)	20/ Charactile
028-26A-Mastic	Pipe End - White	Fibrous	2% Violiastorite	95% Non-fibrous (Other)	3% Chrysotile
341802752-0038	Mastic A/W AHU	Homogeneous			
	Water Pipe				
028-26A-White	Room AB30 - AC-1	White	75% Cellulose	25% Non-fibrous (Other)	None Detected
Insulation	Pipe End - White	Fibrous			
	Mastic A/W AHU	Homogeneous			
341802752-0038A	Water Pipe				
028-26A-Yellow	Room AB30 - AC-1	Yellow	98% Glass	2% Non-fibrous (Other)	None Detected
Insulation	Pipe End - White	Fibrous			
341602752-0036B	Mastic A/W AHU Water Pipe	Homogeneous			
028-26B-Mastic	Room AB30 - AC-1				Stop Positive (Not Analyzed
JZ0-Z0D-WIdSUC	Pipe Elbow - White				orah Lositive (Mot Augiszen
341602752-0037	Mastic A/W AHU				
	Water Pipe				
028-26B-White	Room AB30 - AC-1	White	75% Cellulose	25% Non-fibrous (Other)	None Detected
nsulation	Pipe Elbow - White	Fibrous			
	Mastic A/W AHU	Homogeneous			
41602752-0037A	Water Pipe				
028-27A	Room AB30 - AC-1	Gray		100% Non-fibrous (Other)	None Detected
**********	Ductwork - Light	Non-Fibrous			
341602752-0038	Brown Mastic On Metal Ductwork	Homogeneous			
	wietal Ductwork				

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EMSL Order: 341602752 Customer ID: OCCU56 Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbesto % Fibrous	% Non-Fibrous	Asbestos % Type
028-28A-Floor Tile	Room B118 - Pink	Pink		100% Non-fibrous (Other)	None Detected
341602752-0039	12x12 Vinyl Floor Tile A/W Yellow Mastic	Non-Fibrous Homogeneous			
028-28A-Mastic	Room B118 - Pink	Yellow		100% Non-fibrous (Other)	None Detected
020-20A-Widshic	12x12 Vinyl Floor Tile	Non-Fibrous		10070 Holl-Hollows (Odliel)	TYONG DOLGGOOG
341602752-0039A	A/W Yellow Mastic	Homogeneous			
028-29A	Penthouse B - AC-53	Tan/Black		95% Non-fibrous (Other)	5% Chrysotile
	Ductwork - Light	Non-Fibrous			
341602752-0040	Brown Mastic On Metal Ductwork	Heterogeneous			
Result includes a small amo	unt of inseparable attached mate.	rial			
028-30A-Mastic	Penthouse B - AC-53	White/Silver	12% Cellulose	81% Non-fibrous (Other)	None Detected
ozo owi mosto	Ductwork - White	Fibrous	5% Glass		
341602752-0041	Mastic A/W Foil	Heterogeneous	2% Wollastonite		
	Paper Wrap & Yellow				
lannana bia wasa tawa inali	Fiberglass Insulation				
Inseparable wrap layer inclu		Yellow	98% Glass	DM Non-Shares (Other)	None Detected
028-30A-Insulation	Penthouse B - AC-53 Ductwork - White	Yellow Fibrous	98% Glass	2% Non-fibrous (Other)	None Detected
341602752-0041A	Mastic A/W Foil	Homogeneous			
	Paper Wrap & Yellow	riomogeneous			
	Fiberglass Insulation				
028-31A	Penthouse B - AC-53	Gray		100% Non-fibrous (Other)	None Detected
	Unit - Gray Caulk	Non-Fibrous			
141802752-0042	Around AHU Cover	Homogeneous			
028-32A-Mastic	Penthouse B - AC-53	White	15% Cellulose	78% Non-fibrous (Other)	None Detected
244662752 6042	Water Pipes - White Mastic A/W Stink	Fibrous	5% Glass		
341602752-0043	Rock Around Chilled	Heterogeneous	2% Wollastonite		
	Water Pipes				
Inseparable wrap layer inclu					
028-32A-Insulation	Penthouse B - AC-53	Black		98% Perlite	None Detected
	Water Pipes - White	Non-Fibrous		2% Non-fibrous (Other)	
341602752-0043A	Mastic A/W Stink	Homogeneous			
	Rock Around Chilled				
	Water Pipes	185-19-19-19-1	4804 (0.8.4		Non-Barata d
028-32B	Penthouse B - AC-53 Water Pipes - White	White/Silver Non-Fibrous	15% Cellulose 15% Glass	70% Non-fibrous (Other)	None Detected
341602752-0044	Mastic A/W Stink	Heterogeneous	<1% Wollastonite		
	Rock Around Chilled				
	Water Pipes				
Inseparable wrap layer inclu					
028-33A-Mastic	Penthouse B - AC-53	White	5% Wollastonite	95% Non-fibrous (Other)	None Detected
	Steam Pipe - White	Non-Fibrous			
341602752-0045	Mastic A/W Foil Paper Wrap & Yellow	Homogeneous			
	Fiberglass Insulation				
028-33A-Insulation	Penthouse B - AC-53	Yellow	98% Glass	2% Non-fibrous (Other)	None Detected
ozo-con-madiaudii	Steam Pipe - White	Fibrous	or it diam	The transmission (Aprilla)	THE DESCRIPTION
341602752-0045A	Mastic A/W Foil	Homogeneous			
	Paper Wrap & Yellow	=			
	Fiberglass Insulation				
028-33B-Wrap	B302 - Steam Pipe	White/Silver	45% Cellulose	40% Non-fibrous (Other)	None Detected
	Above Ceiling Grid -	Fibrous	15% Glass		
341602752-0046	White Mastic A/W Foil Paper Wrap & Yellow	Homogeneous			

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EMSL Order: 341602752 Customer ID: OCCU56 Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbest % Fibrous	% Non-Fibrous	<u>Asbestos</u> % Type
028-33B-Insulation	B302 - Steam Pipe Above Ceiling Grid - White Mastic A/W Foil Paper Wrap & Yellow	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
028-34A-Black Mastic 341602752-0047	Fiberglass Insulation Rooftop Of Penthouse B - AC-53 Fan - Black & Gray Mastic At Base Of Exhaust Fan	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
028-34A-Gray Mastic 341602752-0047A	Rooftop Of Penthouse B - AC-53 Fan - Black & Gray Mastic At Base Of Exhaust Fan	White/Blue Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating la					
028-35A 341602752-0048 Inseparable paint / coating la	Rooftop Of Penthouse B - AC-53 Fan - White & Black Mastic Between Roof And Exhaust Fan yer included in analysis	Black/Silver Non-Fibrous Heterogeneous	8% Cellulose	89% Non-fibrous (Other)	3% Chrysotile
028-36A-Wrap 341602752-0049	Penthouse A - AC-55 Ductwork - Foil Paper Wrap A/W Pink Fiberglass Insul. & Black Mastic	Brown/Gray/Silver Fibrous Heterogeneous	15% Cellulose 8% Glass	77% Non-fibrous (Other)	None Detected
No black mastic present Inseparable mastic layer inclu					
028-36A-Insulation 341602752-0049A	Penthouse A - AC-55 Ductwork - Foil Paper Wrap A/W Pink Fiberglass Insul, & Black Mastic	Pink Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
028-37A-Mastic 341602752-0050	Penthouse A - AC-55 Water Pipe - Beige Mastic A/W Black Stink Rock On Chilled Water Pipe	White/Silver/Beige Fibrous Heterogeneous	8% Cellulose 3% Glass 3% Wollastonite	86% Non-fibrous (Other)	None Detected
Inseparable wrap layer includ					
028-37A-Insulation 341602752-0050A	Penthouse A - AC-55 Water Pipe - Beige Mastic A/W Black Stink Rock On Chilled Water Pipe	Black Non-Fibrous Hornogeneous		98% Perlite 2% Non-fibrous (Other)	None Detected
028-38A 341602752-0051	Room B9A - AC-6 Unit - Black Gasket Between Metal Panels On AHU	White/Black Fibrous Heterogeneous	2% Cellulose 2% Synthetic	96% Non-fibrous (Other)	None Detected
028-39A-Mastic 341602752-0052 Inseparable wrap layer includ	Room B9A - AC-6 Water Pipe Elbow - White Mastic A/W Black Stink Rock On Chilled Water Pipe	Various Fibrous Heterogeneous	5% Glass <1% Wollastonite	95% Non-fibrous (Other)	None Detected
028-39A-Insulation 341602752-0052A	Room B9A - AC-6 Water Pipe Elbow - White Mastic A/W Black Stink Rock On Chilled Water Pipe	Black Non-Fibrous Homogeneous		98% Perlite 2% Non-fibrous (Other)	None Detected

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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbest		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
028-40A-Mastic 341602752-0053 Inseparable wrap layer inclu	Room B9A - AC-6 Steam Pipe End - White Mastic A/W Yellow Fiberglass Insul. On Steam Pipe uded in analysis	Brown/White Fibrous Heterogeneous	18% Cellulose 8% Glass 2% Wollastonite	72% Non-fibrous (Other)	None Detected
028-40A-Insulation	Room B9A - AC-6	Yellow	98% Glass	2% Non-fibrous (Other)	None Detected
341602752-0053A	Steam Pipe End - White Mastic A/W Yellow Fiberglass Insul, On Steam Pipe	Fibrous Homogeneous	50 % CHESS	2.6 Not Historia (Other)	Polic Detected
028-41A-Mastic	Room B9A - AC-6	Gray/Silver		100% Non-fibrous (Other)	None Detected
341602752-0054	Ductwork - Gray Mastic Between Metal Ductwork And Insulation	Non-Fibrous Homogeneous			
028-41A-Insulation 341602752-0054A	Room B9A - AC-6 Ductwork - Gray Mastic Between Metal Ductwork And Insulation	Pink Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
028-42A-Mastic	Room 115 - AC-5	Brown/White	10% Cellulose	80% Non-fibrous (Other)	None Detected
341602752-0055	Water Pipe - White Mastic A/W Yellow Insulation On Hot Water Pipe	Fibrous Heterogeneous	8% Glass 2% Wollastonite		
Inseparable wrap layer inclu					
028-42A-Insulation 341602752-0055A	Room 115 - AC-5 Water Pipe - White Mastic A/W Yellow Insulation On Hot	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
	Water Pipe				
028-43A 341602752-0058	Room 115 - AC-5 Water Pipe - White Mastic A/W Black Stink Rock On Chilled Water Pipe	White/Silver Fibrous Heterogeneous	25% Cellulose 15% Glass 2% Wollastonite	58% Non-fibrous (Other)	None Detected
Inseparable wrap layer inclu Insufficient insulation preser					
028-44A-Mastic 341602752-0057	Room 115 - AC-5 Water Pipe - White Paper Foll Wrap A/W Black Stink Rock On Chilled Water Pipe	White Fibrous Heterogeneous	8% Glass 3% Wollastonite	89% Non-fibrous (Other)	None Detected
Inseparable wrap layer inclu					
028-44A-Insulation 341602752-0057A	Room 115 - AC-5 Water Pipe - White Paper Foil Wrap A/W Black Stink Rock On Chilled Water Pipe	Black Non-Fibrous Homogeneous		98% Perlite 2% Non-fibrous (Other)	None Detected
028-45A-Floor Tile	Room 115	White		100% Non-fibrous (Other)	None Detected
341602752-0058	Throughout Floor - Beige 12x12 Vinyl Floor Tile A/W Black Mastic	Non-Fibrous Homogeneous			
028-45A-Mastic	Room 115 Throughout Floor - Beige 12x12 Vinyl	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
47 1992 / SE VIJORN	Floor Tile A/W Black Mastic	Liomogeneous			

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EMSL Order: 341602752 Customer ID: OCCU56 Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbest % Fibrous	% Non-Fibrous	Asbestos % Type
028-46A 141602752-0059 Inseparable paint / coating li	Room 103 - AC-4 Unit - Black Gasket Between Metal Panels On AHU	White/Black Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
028-47A 341602752-0080 Inseparable paint / coating in	Room 103 - AC-4 Unit - Gray Mastic On Exterior Of Metal AHU Panels	Gray/Silver Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
028-48A-Mastic 141602752-0061 Inseparable wrap layer inclu	Room 103 - AC-4 Water Pipes - White Mastic A/W Wrap And Yellow Insulation On Hot Water Pipes	White Fibrous Heterogeneous	15% Cellulose 8% Glass 2% Wollastonite	75% Non-fibrous (Other)	None Detected
028-48A-Insulation	Room 103 - AC-4 Water Pipes - White Mastic A/W Wrap And Yellow Insulation On Hot Water Pipes	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
028-49A-Floor Tile	Room 103 Throughout Floor - Beige 12x12 Vinyl Floor Tile A/W Black Mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
028-49A-Mastic	Room 103 Throughout Floor - Beige 12x12 Vinyl Floor Tile A/W Black Mastic	Black Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
028-50A-Mastic	Room 103 - AC-4 Water Pipes - White Mastic A/W Black Stink Rock On Chilled Water Pipes	White Non-Fibrous Homogeneous	3% Wollastonite	97% Non-fibrous (Other)	None Detected
028-50A-Insulation 941602752-0063A	Room 103 - AC-4 Water Pipes - White Mastic A/W Black Stink Rock On Chilled Water Pipes	Black Non-Fibrous Homogeneous		98% Perlite 2% Non-fibrous (Other)	None Detected
028-50A-Wrap 341602752-00838	Room 103 - AC-4 Water Pipes - White Mastic A/W Black Stink Rock On Chilled Water Pipes	White/Silver Fibrous Heterogeneous	45% Cellulose 15% Glass	40% Non-fibrous (Other)	None Detected
028-51A-Wrap 941602752-0084	Canteen Plenum - AC-2 - Brown Mastic A/W Black Fiberglass Insul. And Wrap On Ductwork	Brown/Silver Fibrous Homogeneous	30% Cellulose 5% Glass	65% Non-fibrous (Other)	None Detected
028-51A-Insulation 341602752-0084A	Canteen Plenum - AC-2 - Brown Mastic A/W Black Fiberglass Insul. And Wrap On Ductwork	Black Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected

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EMSL Order: 341602752 Customer ID: OCCU56

Customer PO: Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description A	ppearance	Non-Asbesto % Fibrous	% Non-Fibrous	<u>Asbestos</u> % Type
028-52A-Mastic	Canteen Plenum - W AC-2 Water Pipe - No	hite on-Fibrous	3% Wollastonite	97% Non-fibrous (Other)	None Detected
341602752-0065	White Mastic A/W He Black Fiberglass Insul. And Wrap On Hot Water Pipe	omogeneous			
028-52A-Wrap		hite/Silver	40% Cellulose	45% Non-fibrous (Other)	None Detected
J41802752-0085A		brous eterogeneous	15% Glass		
028-52A-Insulation		illow	98% Glass	2% Non-fibrous (Other)	None Detected
341602752-00658		omogeneous			
028-53A-Mastic		own/Silver	45% Cellulose	40% Non-fibrous (Other)	None Detected
341602752-0066		brous eterogeneous	15% Glass		
Inseparable wrap layer inclu					
028-53A-Insulation 341602752-00664	Ductwork - Yellow Fi	ellow brous omogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
	Wrap On Ductwork				
028-54A 341602752-0067	RUUD AHU - Black No	ack on-Fibrous omogeneous		100% Non-fibrous (Other)	None Detected
028-55A-Mastic	Attic Area - AC-1 - W White Mastic A/W Fil	hite brous eterogeneous	8% Glass 2% Wollastonite	90% Non-fibrous (Other)	None Detected
	Insul. And Wrap On Ductwork				
Inseparable wrap layer inclu		ellow	98% Glass	Of Non-Shares (Other)	None Detected
028-55A-Insulation 341602752-00884	White Mastic A/W Fil	brous omogeneous	9076 GIBSS	2% Non-fibrous (Other)	None Detected
028-55A-Wrap		hite/Silver/Clear	40% Cellulose	45% Non-fibrous (Other)	None Detected
3+1602752-0088B		brous omogeneous	15% Glass		
Inseparable mastic layer inc					
028-55B-Mastic		own/White brous	12% Cellulose 5% Glass	80% Non-fibrous (Other)	None Detected
341602752-0069		eterogeneous	3% Wollastonite		
Inseparable wrap layer inclu					
028-55B-Insulation	White Mastic A/W Fil	ellow	98% Glass	2% Non-fibrous (Other)	None Detected
341602752-0089A	Yellow Fiberglass He Insul, And Wrap On Ductwork	omogeneous			

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EMSL Order: 341602752 Customer ID: OCCU56 Customer PO:

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Description Attic Area - AC-2 - White Mastic A/W Yellow Fiberglass Insul. And Wrap On Ductwork n enalysis Attic Area - AF-1 - Light Brown Mastic On Exterior Of Metal AHU Panels Attic Area - RH-1 - White Mastic A/W Yellow Insul. And Wrap On Condensate Pipe n analysis Attic Area - RH-1 -	Appearance White/Silver Fibrous Heterogeneous Gray Non-Fibrous Homogeneous White/Silver Fibrous Heterogeneous	% Fibrous 15% Cellulose 5% Glass 8% Cellulose 3% Glass	% Non-Fibrous 80% Non-fibrous (Other) 100% Non-fibrous (Other)	% Type None Detected None Detected
White Mastic A/W Yellow Fiberglass Insul. And Wrap On Ductwork a enalysis Attic Area - AF-1 - Light Brown Mastic On Exterior Of Metal AHU Panels Attic Area - RH-1 - White Mastic A/W Yellow Insul. And Wrap On Condensate Pipe n analysis	Fibrous Heterogeneous Gray Non-Fibrous Homogeneous White/Silver Fibrous	5% Glass 8% Cellulose 3% Glass	100% Non-fibrous (Other)	
Insul. And Wrap On Ductwork no analysis Attic Area - AF-1 - Light Brown Mastic On Exterior Of Metal AHU Panels Attic Area - RH-1 - White Mastic AW Yellow Insul. And Wrap On Condensate Pipe no analysis	Gray Non-Fibrous Homogeneous White/Silver Fibrous	3% Glass		None Detected
Attic Area - AF-1 - Light Brown Mastic On Exterior Of Metal AHU Panels Attic Area - RH-1 - White Mastic A/W Yellow Insul. And Wrap On Condensate Pipe n analysis	Non-Fibrous Homogeneous White/Silver Fibrous	3% Glass		None Detected
Light Brown Mastic On Exterior Of Metal AHU Panels Attic Area - RH-1 - White Mastic A/W Yellow Insul. And Wrap On Condensate Pipe n analysis	Non-Fibrous Homogeneous White/Silver Fibrous	3% Glass		None Detected
AHU Panels Attic Area - RH-1 - White Mastic A/W Yellow Insul. And Wrap On Condensate Pipe n analysis	White/Silver Fibrous	3% Glass		
White Mastic A/W Yellow Insul, And Wrap On Condensate Pipe n analysis	Fibrous	3% Glass		
Yellow Insul. And Wrap On Condensate Pipe n analysis			84% Non-fibrous (Other)	3% Chrysotile
n analysis		2% Wollastonite		
Attic Area - RH-1				
White Mastic A/W	Gray Fibrous	98% Glass	2% Non-fibrous (Other)	None Detected
Yellow Insul. And Wrap On Condensate Pipe	Homogeneous			
Attic Area - AF-1 - White Mastic A/W				Stop Positive (Not Analyzed
Yellow Insul. And Wrap On Condensate Pipe				
Attic Area - AF-1 - White Mastic A/W	Yellow Fibrous	98% Glass	2% Non-fibrous (Other)	None Detected
Yellow Insul. And Wrap On Condensate Pipe	Homogeneous			
Attic Area - RH-2 - White Mastic A/W				Stop Positive (Not Analyzed
Yellow Insul. And Wrap On Condensate Pipe				
Attic Area - RH-2 - White Mastic A/W	Yellow Fibrous	95% Glass	5% Non-fibrous (Other)	None Detected
Yellow Insul. And Wrap On Condensate Pipe	Homogeneous			
Attic Area - AF-1	White/Blue	25% Cellulose	62% Non-fibrous (Other)	None Detected
A/W White Mastic On Chilled Water Supply	Heterogeneous	3% Wollastonite		
n analysis				
Attic Area - AF-1	Black		98% Perlite	None Detected
Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line	Homogeneous		2% Non-librous (Other)	
Attic Area - RH-2	Various	3% Cellulose	2% Perlite	None Detected
A/W White Mastic On	Heterogeneous	5% Glass 3% Wollastonite	67 % Non-Horous (Other)	
ノイン りき ノイン りき ノス ノイじつ ノスノイじ ノき	Attic Area - RH-2 - White Mastic A/W rellow Insul. And Wrap On Condensate Pipe Attic Area - RH-2 - White Mastic A/W rellow Insul. And Wrap On Condensate Pipe Attic Area - AF-1 Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line Area - AF-1 Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line Attic Area - AF-1 Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line Attic Area - RH-2 Return - Blue Wrap	Attic Area - RH-2 - White Mastic A/W fellow Insul. And Wrap On Condensate Pipe White Mastic A/W fellow Insul. And Wrap On Condensate Pipe Attic Area - RH-2 - Pipe White Mastic A/W Fibrous Homogeneous Wrap On Condensate Pipe White Mastic On Chilled Water Supply Line enangysis Attic Area - AF-1 Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line Area - AF-1 Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line Attic Area - RH-2 Attic Area - RH-2 Return - Blue Wrap A/W White Mastic On Heterogeneous	Attic Area - RH-2 - White Mastic A/W Fellow Insul. And Wrap On Condensate Pipe What Mastic A/W Fellow Insul. And Wrap On Condensate Pipe Attic Area - RH-2 - Pibrous Hornogeneous Wrap On Condensate Pipe Attic Area - AF-1 White/Blue Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line - AF-1 Black Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line - AF-1 Black Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line - AF-1 Black Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line - AF-1 Black Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line - AF-1 Black Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line - AF-1 Black Supply - Blue Wrap A/W White Mastic On - Chilled Water Supply Line - AF-1 Black Supply - Blue Wrap A/W White Mastic On - Chilled Water Supply Line - AF-1 Black Supply - Blue Wrap - AF-1 Black Sup	Attic Area - RH-2 - White Mastic A/W fellow Insul. And Wrap On Condensate Pipe White Mastic A/W fellow Insul. And Wrap On Condensate Pipe Attic Area - RH-2 - White Mastic A/W Fibrous Homogeneous Wrap On Condensate Pipe Attic Area - AF-1 White/Blue 10% Class A/W White Mastic On Chilled Water Supply Line Lenandysis Attic Area - AF-1 Black Supply - Blue Wrap A/W White Mastic On Chilled Water Supply Line Lenandysis Attic Area - AF-1 Black Non-Fibrous Won-Fibrous

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos					
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
028-59A	Attic Area - AC-1 - Black Gasket	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected		
341602752-0077	Between Metal AHU Panels	Homogeneous					
028-60A-Tile	Attic Area - Interior Wall - Red	Red Non-Fibrous		100% Non-fibrous (Other)	None Detected		
341602752-0078	Corrugated Wall Tiles With Concrete-like Grout	Homogeneous					
028-60A-Grout	Attic Area - Interior Wall - Red	Gray Non-Fibrous		45% Quartz 10% Ca Carbonate	None Detected		
341602752-0078A	Corrugated Wall Tiles With Concrete-like Grout	Heterogeneous		45% Non-fibrous (Other)			
028-61A	Rooftop Louvre Adjacent To Attic Area	Black Non-Fibrous	8% Synthetic	92% Non-fibrous (Other)	None Detected		
341602752-0079	 Black Caulking Around Exterior Louvre 	Homogeneous					

Analyst(s)

Jonathan Teda (18) Manolo Hernandez (103) Jonathan Teda, Asbestos Lab Manager or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

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OrderID: 341602752

341602752 ASBESTOS NESHAP CHAIN OF CUSTODY FORM

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	7	ENCINEEDI	102

OHC Environmental Engineering, Inc. 5420 Bay Center Drive, Suite 100 Tampa, FL 33609 Office: (813) 626-8156

Laboratory Name:	EMSL Orlando	าร เอลิทธิสิธิใช้เกิด เพลงกระที่สิธิกา
Type of Analysis:	PLM	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Positive Stop :	YES	- 100 (000000000000000000000000000000000
Turnaround Time:	72 hours	
Total # of Samples:	79	
Date/Time Received:	361616 10100	47.43.1897
Received by (print):	Josephan Tale	
Received by (sign):	(xer	

Phone #: OHC Project #:	cjones@ohcnet.com 813-500-8564 160028-AL	Sampled by: Cristina Jones Sampling Date/Time: 3/8/16 – 3/9/16 Relinquished by (print): Cristina Jones Relinquished by (sign): C. January
Project Location:	Lake City VA	Relinquished Date/Time: 3/10/16 @ 3:00pm

HSA#	HSA Location	# of HSA Samples	Sample #	Sample Location	Material Description	Quantity	Friable Y/N
Duildi-	Building		028-1A	BB26 – East wall	Gray spray-on fireproofing		Y
I	I Building 64	2	028-1B	BB26 – West ceiling			
	Building	g 1	028-2A	BB26 – Above AC-7	Flex ductwork a/w foil and tan fiberglass insulation		
2	64					1	И
	Building	1	028-3A	Room BB26 - Along East wall	White coating beneath wrap a/w large water pipe		Y
3	3 Building 64						
	4 Building 64	1	028-4A	BB26 - Along East wall	White foil paper wrap with fibers a/w large water pipe		N
4							
		1	028-5A	Room BB26 Above AC-7	Black mastic a/w square ductwork		N
5	Building 64						
			028-6A	Room BB26 – AC-6	Black mastic around		N
6	Building 64	2	028-6B	Room BB26 – AC-7		ļ	
	D. D. D.		028-7A	Room BB26 - Column near AC-6	Black expansion joint around concrete columns		N
7	Building 64	2	028-7B	Room BB26 - Column near door			
8 Build	Doubling	3 02	028-8A	Room BB26 - Steam water pipe end	White mastic a/w steam water pipes		N
	64		028-8B	Room BB26 - Steam water pipe valve			
			028-8C	Room BB26 -Steam water pipe elbow			
9 Building	Building		028-9A	Room AB05B – Boiler room	White fibrous hot pipe wrap		'n
	Building	1 2 1 028-10B 1 Room AB05B - Boiler room			White meetle on street		
10 Building 64			White mastic on steam water pipe ends		N		



OrderID: 341602752

841602752 ASBESTOS NESHAP CHAIN OF CUSTODY FORM

Project #: __160028-AL Project Location: Lake City VA Date: 3/8/2016

HSA#	HSA Location	# of HSA Samples	Sample #	Sample Location	Material Description	Quantity	Friable Y/N
D.	Duilding		028-11A	Room AB05B - Boiler room			
11	Building 64	2	028-11B	Room AB05B – Boiler room	Gray wrap around steam water pipes		N
	Building	_	028-12A	Room AB05B – Boiler room	Gray spray-on fireproofing on ceiling		Y
12	64	2	028-12B	Room AB05B - Boiler room			
13	Building 64	ī	028-13A	Room AB05 – HV-013 unit	Tan caulking around	-	N
			028-14A	Room AB05 – HV-013 unit	Gray mastic around AHU		N
14	Building 64	1					
	Building	-	028-15A	Room AB05 – HV-013 unit	White mastic a/w wrap around water pipes		
15	64	2	028-15B	-			N
	Building	ing 2	028-16A	Room AB05 - HV-013 ductwork	White duct wrap a/w yellow fiberglass insulation		N
16	16 64 64		028-16B	AB05 – HV-013 ductwork near grill		·	
	Building	,	028-17A	Room AB05 - throughout	Brown cork-like ceiling sheets		N
17 64]					
10	Building	1	028-I8A	Room AB18K - AC-12	Black mastic a/w exterior metal AHU		N
18	64						
19	Building		028-19A	Room AB18K - AC-12DX unit	White mastic a/w exterior metal AHU		N
19	64	1				ļ	
20	Building	1	028-20A	Room AB18K - AC-12 water pipes	White mastic a/w foil		
20	64	1			paper wrap around water pipes		N
21	Building		028-21A	AB18K	GWBS a/w joint compound		N
21	64						
22	Building	uilding 64 I	028-22A	Room AB28 (SPS)	White 4x2 ceiling tiles		N
	64				throughout		
23	Building		028-23A	Hallway in front of Room BB03	White mastic a/w metal ductwork throughout SPS		N
23	64						
24	Building	uilding I	028-24A	Room AB30 – AC-1 unit	White mastic a/w foil paper and black insulation on AHU		N
	64						
25	Building		028-25A	Room AB30 – AC-1 unit	White mastic a/w foil paper and yellow insulation on AHU		N
64	64		_				

PAGE __2_ OF __5_



३४१६०२७५२ ASBESTOS NESHAP CHAIN OF CUSTODY FORM

Project #: 160028-AL Project Location: Lake City VA Date: 3/8/2016

HSA #	HSA Location	# of HSA Samples	Sample #	Sample Location	Material Description	Quantity	Friable Y/N
26	Building 64	2	028-26A 928-26B	Room AB30 – AC-1 pipe end Room AB30 – AC-1 pipe elbow	White mastic a/w AHU water pipe		N
27	Building 64	1	028-27A	Room AB30 – AC-1 ductwork	Light brown mastic on metal ductwork		N
28	Building 64	1	028-28A	Reom Bil8	Pink 12x12 vinyl floor tile a/w yellow mastic		N
29	Building 64	1	028-29A	Penthouse B – AC-53 dactwork	Light brown mastic on metal ductwork		N
30	Building 64	1	028-30A	Penthouse B – AC-53 ductwork	White mastic a/w foil paper wrap & yellow fiberglass insulation		N
31	Building 64	1	028-31A	Penthouse B – AC-53 unit	Grey caulk around AHU cover		N
32	Building 64	2	028-32A 028-32B	Penthouse B – AC-53 water pipes Penthouse B – AC-53 water pipes	White mastic a/w stink rock around chilled water pipes		N
33	Building 64	2	028-33A 028-33B	Penthouse B – AC-53 steam pipe B302 – steam pipe above ceiling grid	White mastic a/w foil paper wrap & yellow fiberglass insulation		N
34	Building 64	I	028-34A	Rooftop of Penthouse B – AC-53 fan	Black & gray mastic at base of exhaust fan		И
35	Building 64	1	028-35A	Rooftop of Penthouse B – AC-53 fan	White & black mastic between roof and exhaust fan		И
36	Building 64	ī	028-36A	Penthouse A – AC-55 ductwork	Foil paper wrap a/w pink fiberglass insul. & black mastic		N
37	Building 64	1	028-37A	Penthouse A – AC-55 water pipe	Beige mastic a/w black stink rock on chilled water pipe		N
38	Building 19	1	028-38A	Room B9A – AC-6 unit	Black gasket between metal panels on AHU		N
39	Building 19	1	028-39A	Room B9A – AC-6 water pipe elbow	White mastic a/w black stink rock on chilled water pipe		N
40	Building 19	1	028-40A	Room B9A – AC-6 steam pipe end	White mastic a/w yellow fiberglass insul. on steam pipe		N

PAGE __3__ OF __5__



341602752

ASBESTOS NESHAP CHAIN OF CUSTODY FORM

Project #: _160028-AL Project Location: _Lake City VA Date: _3/8/2016

HSA #	HSA Location	# of HSA Samples	Sample #	Sample Location	Material Description	Quantity	Friable Y/N
41	Building 19	1	028-41A	Room B9A – AC-6 ductwork	Gray mastic between metal ductwork and insulation		N
42	Building 19	ı	028-42A	Room 115 – AC-5 water pipe	White mastic a/w yellow insulation on hot water pipe		N
43	Building 19	1	028-43A	Room 115 – AC-5 water pipe	White mastic a/w black stink rock on chilled water pipe		и
44	Building 19	1	028-44A	Room 115 – AC-5 water pipe	White paper foil wrap a/w black stink rock on chilled water pipe		N
45	Building 19	ı	028-45A	Room 115 throughout floor	Beige 12x12 vinyl floor tile a/w black mastic		N
46	Building 19	1	028-46A	Room 103 – AC-4 unit	Black gasket between metal panels on AHU		N
47	Building 19	1	028-47A	Room 103 – AC-4 unit	Gray mastic on exterior of metal AHU panels		N
48	Building 19	1	028-48A	Room 103 – AC-4 water pipes	White mastic a/w wrap and yellow insulation on hot water pipes		N
49	Building 19	1	028-49A	Room 103 throughout floor	Beige 12x12 vinyl floor tile a/w black mastic		N
50	Building 19	ı	028-50A	Room 103 – AC-4 water pipes	White mastic a/w black stink rock on chilled water pipes		N
51	Building 19	1	028-51A	Canteen plenum – AC-2	Brown mastic a/w black fiberglass insul. and wrap on ductwork		N
52	Building 19	1	028-52A	Cantcon plenum – AC-2 water pipe	White mastic a/w black fiberglass insul. and wrap on hot water pipe		N
53	Building 19	1	028-53A	Room 103 – AC-4 ductwork	Yellow mastic a/w yellow fiberglass insul. and wrap on ductwork		N
54	Building 19	1	028-54A	Rooftop of kitchen - RUUD AHU	Black gasket between metal panels on AHU		N
55	Building 38	3	028-55A 028-55B 028-55C	Attic Area – AC-1 Attic Area – AF-I Attic Area – AC-2	White mastic a/w yellow fiberglass insul. and wrap on ductwork		N

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341602752

ASBESTOS NESHAP CHAIN OF CUSTODY FORM

Project #: 160028-AL Project Location: Lake City VA Date: 3/8/2016

HSA#	HSA Location	# of HSA Samples	Sample #	Sample Location	Material Description	Quantity	Friable Y/N
56	Building 38	1	028-56A	Attic Area – AF-I	Light brown mastic on exterior of metal AHU panels		N
57	Building 38	3	028-57A 028-57B 028-57C	Attic Area – RH-1 Attic Area – AF-1 Attic Area – RH-2	White mastic a/w yellow insul. and wrap on condensate pipe		N
58	Building 38	2	028-58A 028-58B	Attic Area – AF-1 supply Attic Area – RH-2 return	Blue wrap a/w white mastic on chilled water supply line		N
59	Building 38	ı	028-59A	Attic Arca - AC-1	Black gasket between metal AHU panels		N
60	Building 38	1	028-60A	Attic Area – interior wall	Red corrugated wall tiles with concrete-like grout		N
61	Building 38	1	028-61A	Rooftop louvre adjacent to attic area	Black caulking around exterior louvre		N

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APPENDIX D:

LEAD LABORATORY ANALYTICAL RESULTS





EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804 Phone/Fax: (407) 599-5887 / (407) 599-9063 http://www.EMSL.com orlandolal

EMSL Order: 341602766 CustomerID: CustomerPO:

ProjectID:

OCCU56

Cristina Jones OHC Environmental Engineering, Inc.

5420 Bay Center Drive Suite 100

Received: 03/11/16 10:50 AM Collected: 3/9/2016

(813) 626-8156

(813) 623-6702

Phone:

Fax:

Tampa, FL 33609

Project: 1600028-AL

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected Analyzed	RDL	Lead Concentration
028-Pb1 341602766-0001	3/8/2016 3/14/2016 Site: Building 64 - Central To Room BB26 Desc: Beige Paint On Pipe Conduit	0.010 % wt	0.22 % wt
028-Pb2 341602766-0002	3/8/2016 3/14/2016 Site: Building 64 - South Wall Of Room BB26 Desc: White Paint On Cinderblock Wall	0.010 % wt	0.23 % wt
028-Pb3 341602766-0003	3/8/2016 3/14/2016 Site: Building 64 - West End Of Room BB26 Desc: Red/Orange Paint On Fire Sprinklers	0.010 % wt	27 % wt
028-Pb4 341602766-0004	3/8/2016 3/14/2016 Site: Building 64 - Throughout Room AB05 Desc: Beige Paint On Brick Wall	0.010 % wt	0.017 % wt
028-Pb5 341602766-0005	3/8/2016 3/14/2016 Site: Building 64 - Throughout Room AB30 Desc: White Paint On Brick Wall	0.010 % wt	<0.010 % wt
028-Pb8 341602766-0006	3/8/2016 3/14/2016 Site: Building 64 - Outside Room AB30 Desc: Black Paint On Exterior Louvres	0.011 % wt	<0.011 % wt
028-Pb7 341602766-0007	3/8/2016 3/14/2016 Site: Building 64 - Penthouse B Rooftop Desc: White Paint On Rooftop	0.010 % wt	<0.010 % wt
028-Pb8 341602766-0008	3/9/2016 3/14/2016 Site: Building 19 - Room B11 Desc: Beige Paint On Individual AC Unit	0.010 % wt	<0.010 % wt
028-Pb9 341602766-0009	3/9/2016 3/14/2016 Site: Building 38 - Elevator Machinery Room Desc: Beige Paint On Concrete Wall	0.010 % wt	0.021 % wt

Blanca Cortes, Ph.D., Laboratory Manager or other approved signatory

"Analysis following Lead in Paint by EMSL SOPiDetermination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. ""Ciless than) results inside that the analyse was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The OC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Samples analyzed by EMSL Analytical, Inc. Orlando, FL AlHA-LAP, LLC-ELLAP Accredited #163563

Initial report from 03/15/2016 16:58:45

Test Report PB w/RDL-7.32.3 Printed: 3/15/2016 4:58:45 PM

Page 1 of 2





EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804
Phone/Fax: (407) 599-5887 / (407) 599-9063
http://www.EMSL.com orlandolab@emsl.

EMSL Order: CustomerID: CustomerPO: 341602766 OCCU56

ProjectID:

Attn: Cristina Jones
OHC Environmental Engineering, Inc.

5420 Bay Center Drive Suite 100 Phone: (813) 626-8156 Fax: (813) 623-6702 Received: 03/11/16 10:50 AM Collected: 3/9/2016

Tampa, FL 33609
Project: 1600028-AL

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription Collected Analyzed RDL Lead Concentration

Blanca Cortes, Ph.D., Laboratory Manager or other approved signatory

*Analysis following Lead in Paint by ENSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by ENSL. ENSL, bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. **Cleeps than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is exellable upon request. The OC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Samples analyzed by EMSL, Analytical, Inc. Orlando, Fl. AlPHA-AP, LLC-ELLAP Accredited #163663

Initial report from 03/15/2016 16:58:45

Test Report PB w/RDL-7.32.3 Printed: 3/15/2016 4:58:45 PM

Page 2 of 2



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LEAD CHAIN OF CUSTODY FORM

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		-	
ENVIRON	MENTAL	ENGINEERING	

OHC Environmental Engineering, Inc. 5420 Bay Center Drive, Suite 100 Tampa, FL 33609 Office: (813) 626-8156

5.	Laboratory Name:	EMSL Orlando	-	/"5X
	Turnaround Time:	72 hours	- 57	1.1gt.
ď	Total # of Samples:	9	112	
,	Date/Time Received:	3/11/11 10:58	1 1	14514
į	Received by (print):	Jonathan Tede		
ì	Received by (sign):	low		5.04
9	*** 1.10T.			984.0

Send Report to:	Cristina Jones
Email Address:	cjones@ohcnet.com
Phone #:	813-500-8564
OHC Project #:	160028-AL
Project Description:	Lake City VA
Sampled by:	Cristina Jones
Sampling Date:	3/8/16 - 3/9/16
Relinquished By (print):	Cristina Jones
Relinquished By_(sign):	_
Relinquished Date/Time:	
I	

	ANAIŠII (EASIVI ĮRIKOD					
Matrix	Method	Reporting	Check			
	Flower Atomic	% by weight	X			
CHIPS	Flame Atomic	mg/cm ²				
	Absorption	ppm				
AIR	Flame Ator	nic Absorption				
AIK	ICP-AE	S/ICP-MS				
	Flame Atomic	ASTM	T			
	Absorption	Non-ASTM				
WIPE	ICD ACC	ASTM				
	ICP-AES	Non-ASTM				
	Flame Ator	nic Absorption				
TCLP		P-AES-	1-			

Sample #	Sample Description	Location	Volume/Area	Date/Time Collected
028-Pb1	Beige paint on pipe conduit	Building 64 – Central to Room BB26	N/A	3/8/16
028-Pb2	White paint on cinderblock wall	Building 64 – South wall of Room BB26	N/A	3/8/16
028-Pb3	Red/Orange paint on fire sprinklers	Building 64 – West end of Room BB26	N/A	3/8/16
028-Pb4	Beige paint on brick wall	Building 64 – Throughout Room AB05	N/A	3/8/16
028-Pb5	White paint on brick wall	Building 64 – Throughout Room AB30	N/A	3/8/16
028-Pb6	Black paint on exterior louvres	Building 64 – Outside Room AB30	N/A	3/8/16
028-Pb7	White paint on rooftop	Building 64 – Penthouse B rooftop	N/A	3/8/16
028-Pb8	Beige paint on individual AC unit	Building 19 – Room B11	N/A	3/9/16
028-Pb9	Beige paint on concrete wall	Building 38 – elevator machinery room	N/A	3/9/16

PAGE ____OF ___



APPENDIX E:

CONSULTANT & LABORATORY CREDENTIALS



RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION ASBESTOS LICENSING UNIT

LICENSE NUMBER

IA0000022

The ASBESTOS CONSULTANT
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2016

RIZK, JAMES FAHMY 5420 BAY CENTER DRIVE SUITE 100 TAMPA FL 33609

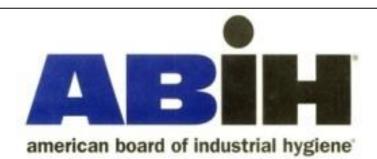


ISSUED: 11/18/2014

DISPLAY AS REQUIRED BY LAW

SEQ# L1411180002196





organized to improve the practice of industrial hygiene proclaims that

Jim F. Rizk

having met all requirements of education, experience and examination, and ongoing maintenance, is hereby certified in the

> COMPREHENSIVE PRACTICE of INDUSTRIAL HYGIENE

and has the right to use the designations

CERTIFIED INDUSTRIAL HYGIENIST

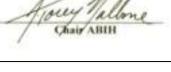
CIH

Certificate Number 3956 CP

Awarded: June 30, 1988

Expiration Date: June 1, 2016

Executive Diseases A BIII







AIR ANALYTICS certifies that

Cristina Jones

has attended and completed 24 hours of training from 8/12/15 to 8/14/15, and passed an examination covering the content of the asbestos accreditation under Section 206 of TSCA, 15 U.S.C. 2646

AHERA Facility Inspector Initial Training Course

In accordance with U.S.E.P.A. 40 C.F.R. 763 and in testimony whereof, we do confer this certificate at Oviedo, Florida, August 14, 2015.

Certificate expires 8/14/16.

Certificate # AA081415II02 ID # 5319

Florida DBPR Course Provider #0001209, Florida DBPR Training Course #0006360
Air Analytics - 2582 Connection Point, Suite 1000, Oviedo, Florida 32765, 407/359-1974

Edward A. Nuñez, CIH, LAC Course Director





United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101151-0

EMSL Analytical, Inc.

Orlando, FL

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2015-06-04 through 2016-06-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program





